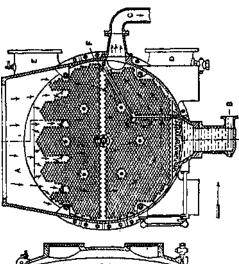
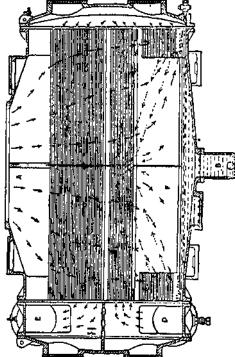
CONDENSERS AND COOLING TOWERS





water enters the end cover at the point i>, and flows through bottom half of the tubes to the other end. At this end the cover directs the water through the upper half or top set of the tubes, and it finally leaves the condenser at the point The K. exhaust steam enters at exhaust through connections of ample area, which is particularly necessary for steam turbines expanding to very low pressures, and passes among the tubes. Some the tubes in the set left out to form channels as to facilitate the proper dis-

tribution of the

over steam the whole cross-section the condenser. Near bottom the the condenser baiHe the directs the mixture of air and the small amount of unconthe dcnsed steam to air-pump suction whilst the water С, Η. condensation is extracted at tubes behind the bailie the between the bottom of condenser and the air-purnp suction arc introduced (' cool and devaporixe the air. This reduces the volume of the and the correspondair ing displacement of the dry by air-pump as is shown the 237. The calculations on p.

devaporixing usually tubes are adopted for high vacua and therefore hardly necessary are in condensers connected to reciprocating engines.

An inspection of the cross-sectional view in fig. 6 shows how the area available for the flow of the steam and air

narrows down from the steam inlet to the air outlet. This is desirable a feature, so as to preserve a reasonable velocity of of the steam the tubes as the condensation goes on. With a circular shape of shell, however, this feature cannot be arranged for as well as in a condenser of